

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Please amend Claims 1, 3, 6, 8, 13, and 17, as follows.

1. (Currently Amended) A method for distributing electronic mail efficiently across a network of information processing units and intermediate nodes, the method on an information processing unit comprising the steps of:

receiving a mail message created by a user with a ~~list~~ plurality of destinations, the user being the sender of the mail message; and

sending a single copy of the mail message, in a multicast packet including a ~~list~~ plurality of destination addresses, across the network via at least one intermediate node to addresses corresponding to the ~~list~~ plurality of destination addresses using a reliable multicast technique.

2. (Original) The method as defined in claim 1, wherein the reliable multicast technique comprises a reliable small group multicast technique.

3. (Currently Amended) An information processing unit for distributing electronic mail efficiently across a network of information processing units and intermediate nodes, the information processing unit comprising:

a reception unit for receiving a mail message with addresses corresponding to a ~~list~~ plurality of destinations; and

a transmission unit for sending a single copy of the mail message, in a multicast packet including a ~~list~~ plurality of destination addresses corresponding to the ~~list~~ plurality of destinations, across the network via intermediate nodes to destination addresses corresponding to the ~~list~~ plurality of destinations using a reliable multicast technique.

4. (Original) The information processing unit as defined in claim 3, wherein the reliable multicast technique comprises a reliable small group multicast technique.

5. (Original) The information processing unit as defined in claim 3, wherein the transmission unit operates according to a communication protocol to process ACKs and NAKs as well as packet retransmissions.

6. (Currently Amended) A computer readable medium including instructions for distributing electronic mail efficiently across a network of information processing units and intermediate nodes, the computer readable medium comprising instructions for:

receiving a mail message with addresses corresponding to a ~~list~~ plurality of destinations; and

sending the mail message, in a multicast packet including a ~~list~~ plurality of destination addresses corresponding to the ~~list~~ plurality of destinations, across the network via intermediate nodes to the destination addresses corresponding to the ~~list~~ plurality of destinations using a reliable multicast technique.

7. (Original) The computer readable medium as defined in claim 6, wherein the reliable multicast technique comprises a reliable small group multicast technique.

8. (Currently Amended) A method for distributing electronic mail across a network of information processing units and intermediate nodes, the method on an intermediate node comprising the steps of:

receiving a mail message in a multicast packet including a ~~list~~ plurality of destination addresses;

determining one or more "next hops" corresponding to the ~~list~~ plurality of destination addresses for forwarding the packet;

replicating the packet for each "next hop"; and

forwarding one copy of the packet to each of the "next hops".

9. (Original) The method as defined in claim 8, wherein the determining, replicating and forwarding steps operate according to a Small Group Multicast scheme.
10. (Original) The method as defined in claim 8, further comprising the step of:
repetitively executing the determining, replicating and forwarding steps for each newly received packet.
11. (Original) The method as defined in claim 8, further comprising the steps of:
processing ACKs and/or NAKs; and
performing packet retransmissions.
12. (Original) The method as defined in claim 8, wherein the multicast packet comprises a small group multicast packet.
13. (Currently Amended) A computer readable medium including instructions for distributing electronic mail efficiently across a network of information processing units and intermediate nodes, the computer readable medium comprising instructions for:
receiving a mail message in a multicast packet including a ~~list~~ plurality of destination addresses;
determining the "next hop" for each destination address of the ~~list~~ plurality of destination addresses; and
replicating the packet for each "next hop".
14. (Original) The computer readable medium as defined in claim 13, further comprising the instruction for:
forwarding a copy of the packet to each "next hop".

15. (Original) The computer readable medium as defined in claim 14, further comprising the instruction for:

repetitively executing the determining, duplicating and forwarding steps for each newly received packet.

16. (Original) The computer readable medium as defined in claim 15, further comprising the instructions for:

processing ACKs and/or NAKs; and
handling packet retransmissions.

17. (Currently Amended) An intermediate node for distributing electronic mail efficiently across a network of information processing units and intermediate nodes, the intermediate node comprising:

a reception unit for receiving a mail message in a multicast packet including a ~~list~~ plurality of destination addresses;

a determination unit for determining the "next hop" for each destination address of the ~~list~~ plurality of destination addresses; and

a copying unit for replicating the packet for each of the "next hops".

18. (Original) The intermediate node as defined in claim 17, further comprising:

a forwarding unit for forwarding a copy of the packet to each of the "next hops".

19. (Original) The intermediate node as defined in claim 18, further comprising:

a repeater unit for repetitively executing the determining, duplicating and forwarding steps for each newly received packet.

20. (Original) The intermediate node as defined in claim 19, further comprising:

an acknowledge unit for processing ACKs and/or NAKs; and
a retransmit unit for handling packet retransmissions.

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